

# Worksheet

05/15/2020

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Problem quickname: 9505

1)

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a)  $-474 + 2 = -2 - 5d$       b)  $-340 + 5q = 10q - 9q$       c)  $377 - 9 = -4 + 4p$   
d)  $-4j + 7 = 2 - 3$       e)  $-2u + 46 = -2 + 4$       f)  $-3 + 2 = 289 - 5j$   
g)  $3r - 4 = -189 + 8r$       h)  $-9c + 2 = -258 + c$       i)  $-6n + 3 = -53 - 4$

2)

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a)  $-286 + 2u = -2u - 2$       b)  $-120 + 5 = -4q + 1$   
c)  $-4h + 5h = -136 + 9h$       d)  $248 + 3i = -3i + 14i$   
e)  $6v - 5v = -93 + 4v$       f)  $-6e + 399 = 3e + 3$   
g)  $-9u - 4 = -3 - 244$       h)  $-5s + 3s = -204 + 4s$   
i)  $-5v - 3v = -2v - 108$

3)

Solve the equation: Determine the value of the variable. Combine like terms and perform equivalent transformations.

a)  $-3u + 275 = -1 - 3$       | rearrange and combine like terms  
     $- \square u + \square = -\square$       |  $-\square$   
     $- \square u = -\square$       |  $:\square$   
     $u = \square$

b)  $1 - 4 = -248 + 7g$       | rearrange and combine like terms  
     $\square = \square g - \square$       |  $+\square$   
     $\square = \square g - \square$       |  $-\square$   
     $-\square g = -\square$       |  $:\square$   
     $g = \square$

c)  $-328 + 3j = 2j - 7j$       | rearrange and combine like terms  
     $\square j - \square = \square j$       |  $+\square$   
     $\square j = -\square j + \square$       |  $+\square$   
     $\square j = \square$       |  $:\square$   
     $j = \square$

- d)  $3t + 5t = 2t + 222$  | rearrange and combine like terms  
 $\square t = \square t + \square$  |  $-\square$   
 $\square t = \square$  |  $:\square$   
 $t = \square$
- e)  $-15n - 5 = -415 - 5n$  | rearrange and combine like terms  
 $-\square n - \square = -\square n - \square$  |  $+\square$   
 $-\square n = -\square n - \square$  |  $+\square$   
 $\square n = -\square$  |  $:\square$   
 $n = \square$
- f)  $335 - 3 = -2b + 6b$  | rearrange and combine like terms  
 $\square = \square b$  |  $-\square$   
 $\square = \square b - \square$  |  $-\square$   
 $-\square b = -\square$  |  $:\square$   
 $b = \square$
- g)  $-4k + 3 = -184 - 5$  | rearrange and combine like terms  
 $-\square k + \square = -\square$  |  $-\square$   
 $-\square k = -\square$  |  $:\square$   
 $k = \square$
- h)  $-357 - 5y = -3y - 9y$  | rearrange and combine like terms  
 $-\square y - \square = \square y$  |  $+\square$   
 $-\square y = -\square y + \square$  |  $+\square$   
 $\square y = \square$  |  $:\square$   
 $y = \square$
- i)  $-3 + 5m = -263 + 10m$  | rearrange and combine like terms  
 $\square m - \square = \square m - \square$  |  $+\square$   
 $\square m = \square m - \square$  |  $-\square$   
 $\square m = -\square$  |  $:\square$   
 $m = \square$

4)

Solve the equation: Determine the value of the variable x. Combine like terms and perform equivalent transformations.

- a)  $-2x + 8 - 4 = x - 56$       b)  $7x - 479 - 1 = -2x + 4x$   
c)  $-5x - 3x + 5 = -148 + 1$       d)  $6x - 195 + 2 = 3 - 4$   
e)  $-154 + 7 - 5 = -5x + 3$       f)  $-10x + 3 + 4x = -189 + 2x$   
g)  $-5x + 750 - x = 2x + 2x$       h)  $5x - 5 + 3 = -1 + 139$   
i)  $-158 + 2 + 3x = -2x - x$

Good Luck!